

Figure 1

transmembrane area ↓

α1*

hDPPIV 1 MKTPWKVLLGLLGAÄÄLVTIITVPVVLINKGTDDATADSRKTYTLTDYLK 50
rDPPIV 1 -----E-A---A-R---A--- 48

β1/1 β1/2 β1/3 **Y** β1/4

hDPPIV 51 NTYRLKLYSLRWISDHEYLYKQENNILVFNAEYGNSSVFLLENSTFDEFGH 100
rDPPIV 49 --F-V-S---V-S---T-H-I-EI-D 98

β2/1 β2/2 β2/2a β2/2b β2/3 β2/4 **Y**

hDPPIV 101 SINDYSISPDGQFILLEYNYVKQWRHSYTASYDIYDLNKRQLITEERIPN 150
rDPPIV 99 --S---V-RL-V-S---K--- 148

β3/1 β3/2 β3/3 β3/4 β3/4a

hDPPIV 151 NTQWVWTWSVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIIYNGITD 200
rDPPIV 149 ---I-QE-K-H-S-NV-F-N- 198

α2* β4/1 β4/2 **Y** β1*

hDPPIV 201 WVYEEEVFSAYSALWWSPNGTFLAYAQFNDT **WAPLIXSFYSDESFQWPK** 250
rDPPIV 199 ---I-G-G- 248

β2* β4/3 **Y** β4/4 **α3***

hDPPIV 251 **IVAVVPYPKAGAVNE** TVKFFVVNTDSLSSVTNATSIQITAPASMEIGDHYL 300
rDPPIV 249 --WI-T-TIIPM-VTT--- 298

β5/1 β5/2 β5/3 β5/4a β5/4b

hDPPIV 301 CDTWATQERISLQWLRRIQNYSmD1CDYDESSG **WVWVH** 350
rDPPIV 299 ---A-VSED-A-KTTLV-PTTQE-T-A 348

β6/1 β6/2 β6/3 β6/4

hDPPIV 351 TGWVGRFRPSEPHFTLDGNSFYK11SNEEGYRH1CYFQIDKKD...CTF1 397
rDPPIV 349 ---C-A-S-V-DKD-K-Q-K-R-PEQV--- 398

β7/1 β7/2 β7/3 β7/4

hDPPIV 398 TKGTWEVIGIEALTSYLYISNEYKGMPGGRNLYKIQSLSDYTKVTCCLSC 447
rDPPIV 399 ---A-S-E-T-H-NKK--- 448

β8/1 β8/2 β8/3 β8/4

hDPPIV 448 ELNPERCQYYSVSFSKEAKYYQLRCSPGLPLYTLHSSVNDKGLRVLEDN 497
rDPPIV 449 D-L-G-R-R-TDQ-E--- 498

α4* β1 β2 β3

hDPPIV 498 SALDKMLQNVQMPSKKLDIIL.NETKFWYQMLPPHFDKSKKYPLL DV 546
rDPPIV 499 ---D-V-R-I-- 547

POP 430 KGIDASDYQTVQIFYPSKDGTKJPMFTVHKKGIKLDGSHPAFLYG 472

αA β4 **αB'**

hDPPIV 547 **YAGPCSQKADTVFRL.N**LASTENIIIVASF DGRGSGYQGD KIMHAI. 594
rDPPIV 548 **AA** 595

POP 473 **XGGFNISI...TPNYSVSRLIFVRHMGGVLAVANIRGGGEYGETWHKGGI** 519

αB **β5'** **β5** **αC**

hDPPIV 595 NRRLGTFEVEDQIEAARQFSKMGFVDNKRIAIWGW**YGGYVTSMLGSGS** 644
rDPPIV 596 -K---L-----L-----S---V----- 645
POP 520 LAN.KQNCFDDFQCAAEYLIKEGYTSPKRLTINGG**NGGLLVATCANQRP** 568

α6 **S-S- with C762** **αD'** **αD**

hDPPIV 645 GVFKGCGIAVAPVSRWEYYD.....**YMLPTPEDNLDHYRNSTVM** 689
rDPPIV 646 ----- 690
POP 569 DLFGCVIAQVGVMMD**T KFKYTIGHAWTTDYG.CSDSKOHFEWLIKYSPL** 617

β7 **αE**

hDPPIV 690 SRAE.....NFKQVEYLLIHGT**ADNVHFQQSAQISKALVDVGV**..... 727
rDPPIV 691 ----- 728
POP 618 HNVKLPEADDI**QYPSM**LLTADH**DRVVPLHS**LFIA**TLOQYIVGRSRKQN** 667

β8 **αF -S-S- with C649**

hDPPIV 728 .DFQAMWYTDED**G.IASSTAHQHIYTHMSHFIKQCFSLP...** 766
rDPPIV 729 ----- 767
POP 668 NPLLIHVDTKAG**GAGKPTAKVIEEVSDMFAFIARCLNIDWIP** 710

Figure 2

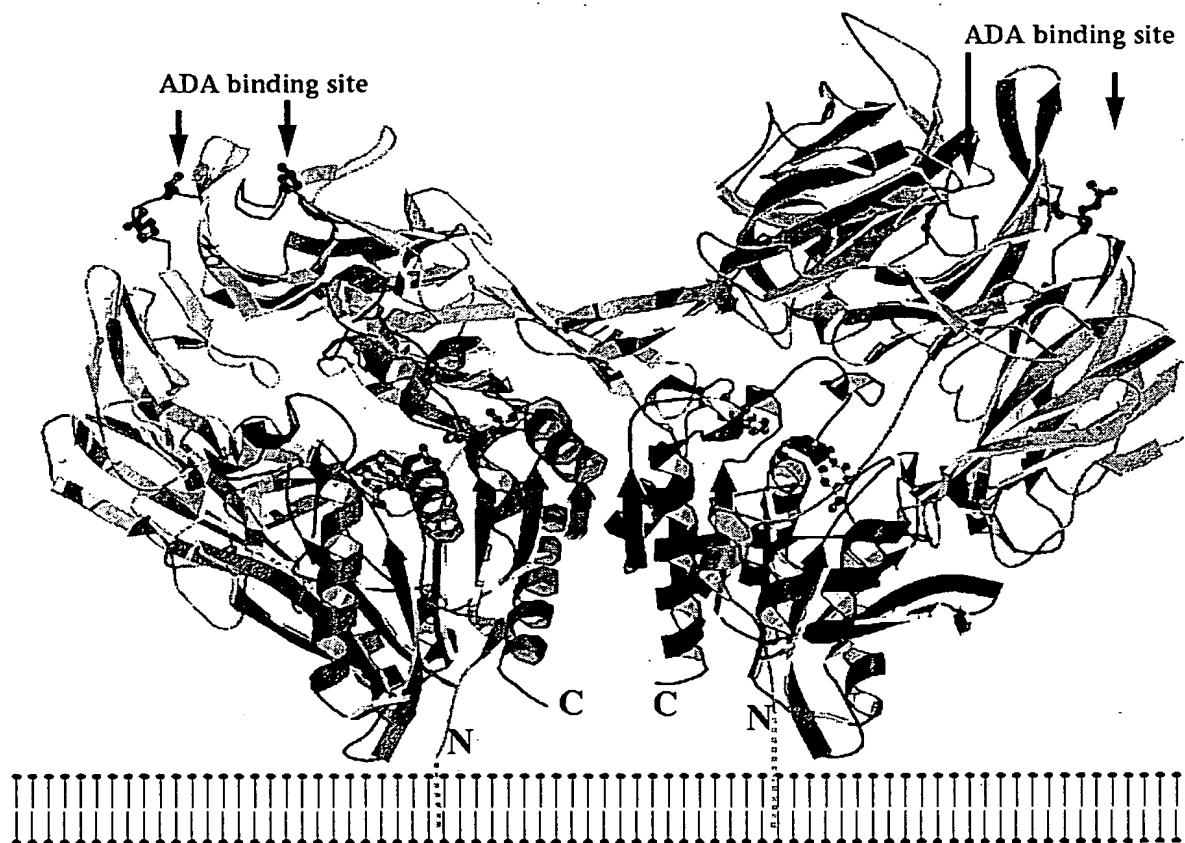


Figure 3 A

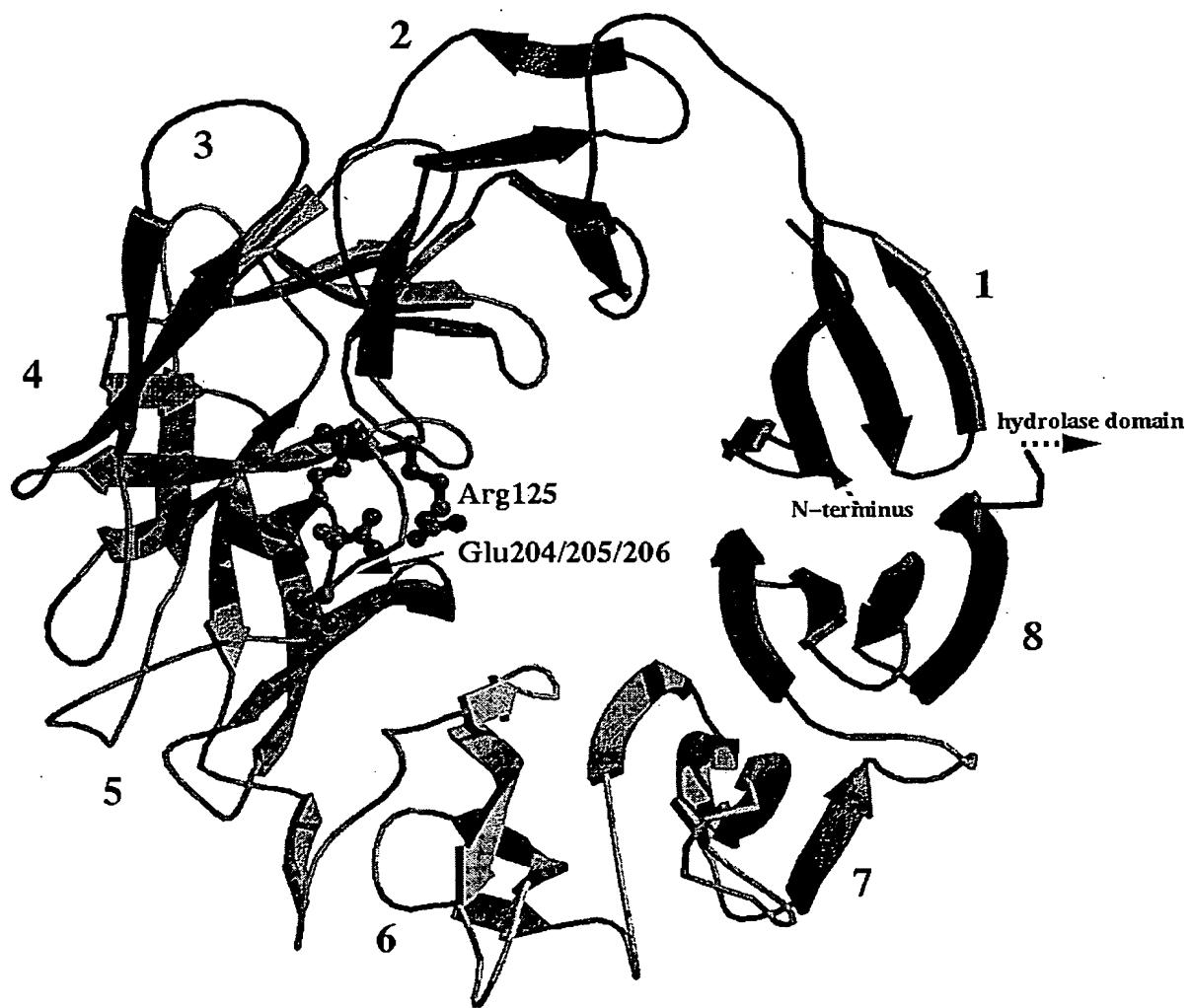


Figure 3B

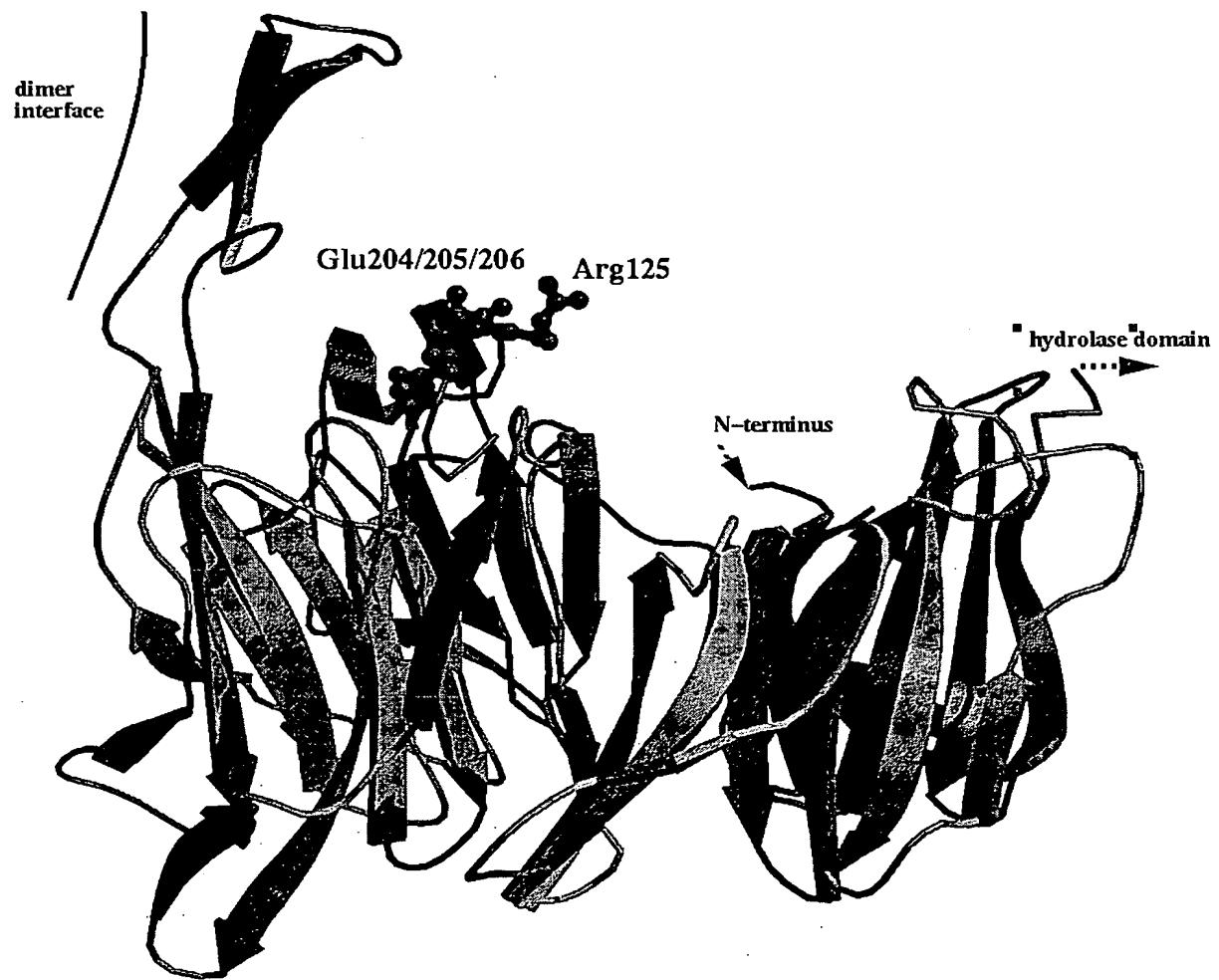


Figure 3C



Figure 4

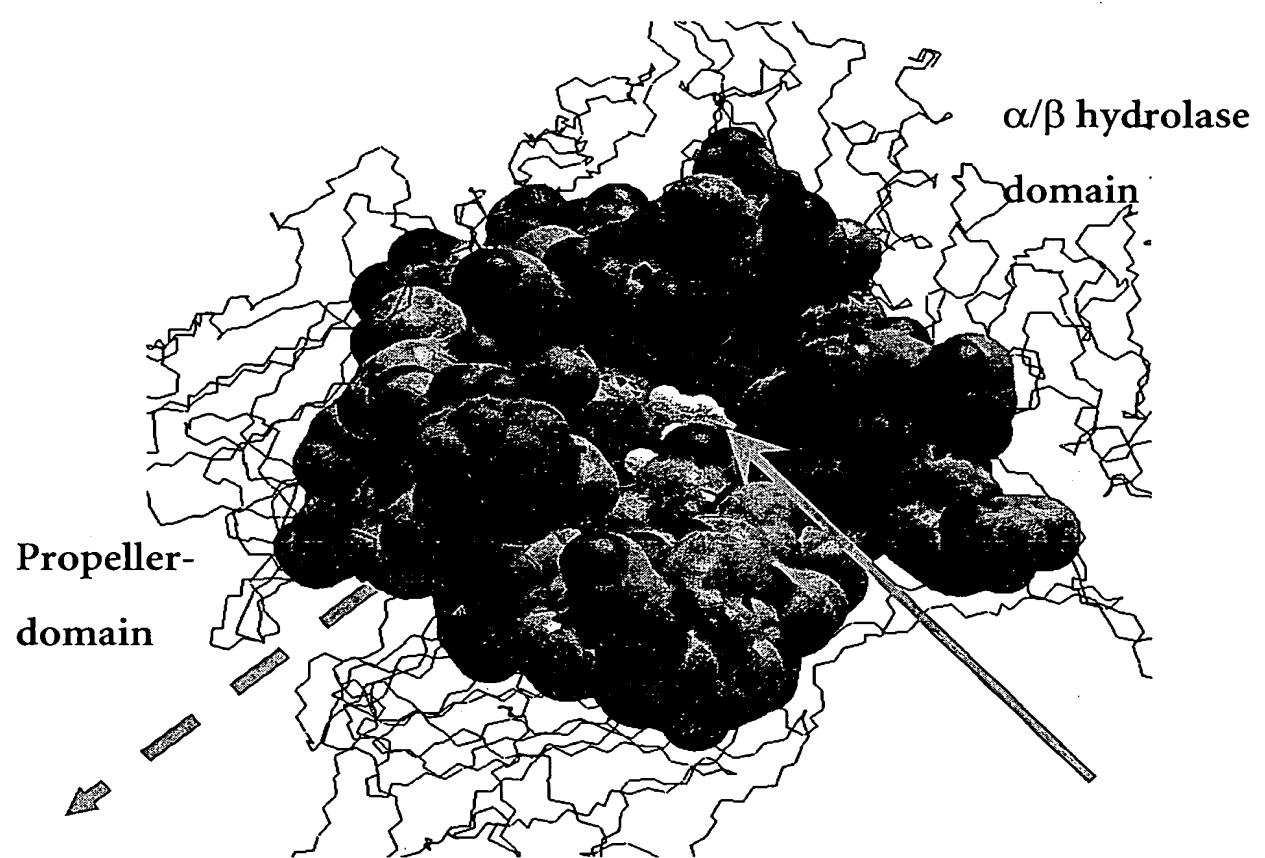


Figure 5

